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Reference

Reference: In terms related to engineering, reference material would be, support documentation, drawings, guidelines, policies and procedures, or other material that may support engineering decisions

How Are Engineering Decisions Made ?

- Education
- Experience
- Use of reference material

What an Engineer Sees'



What a Politician Sees'



This is What We Have to Deal With

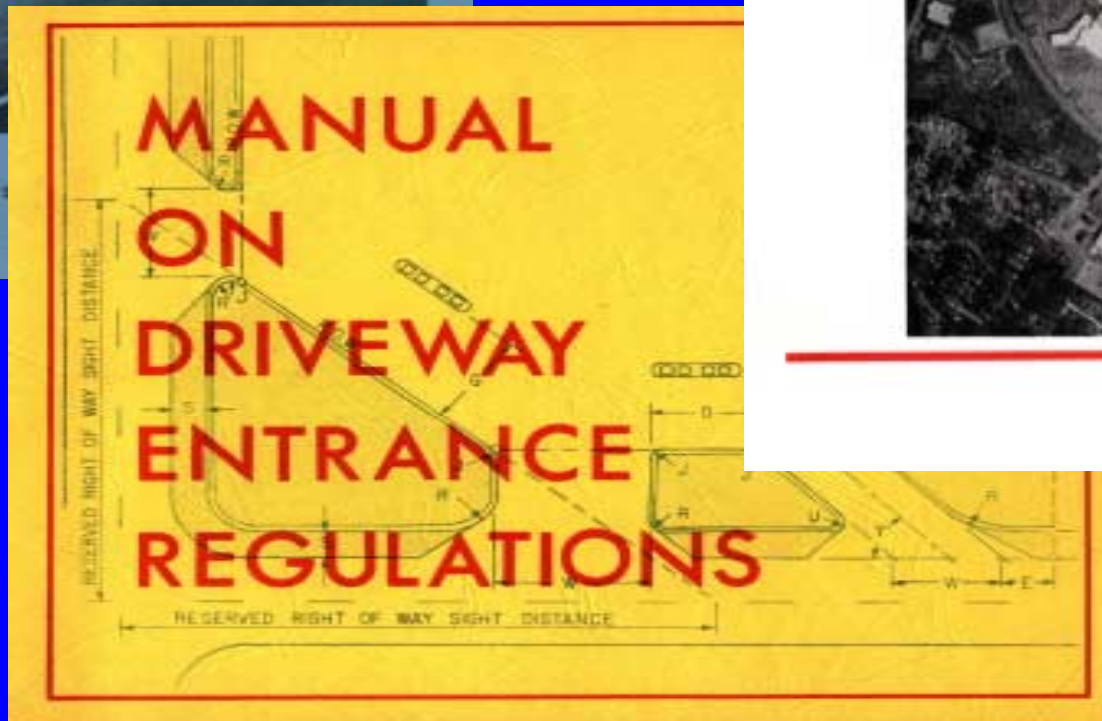
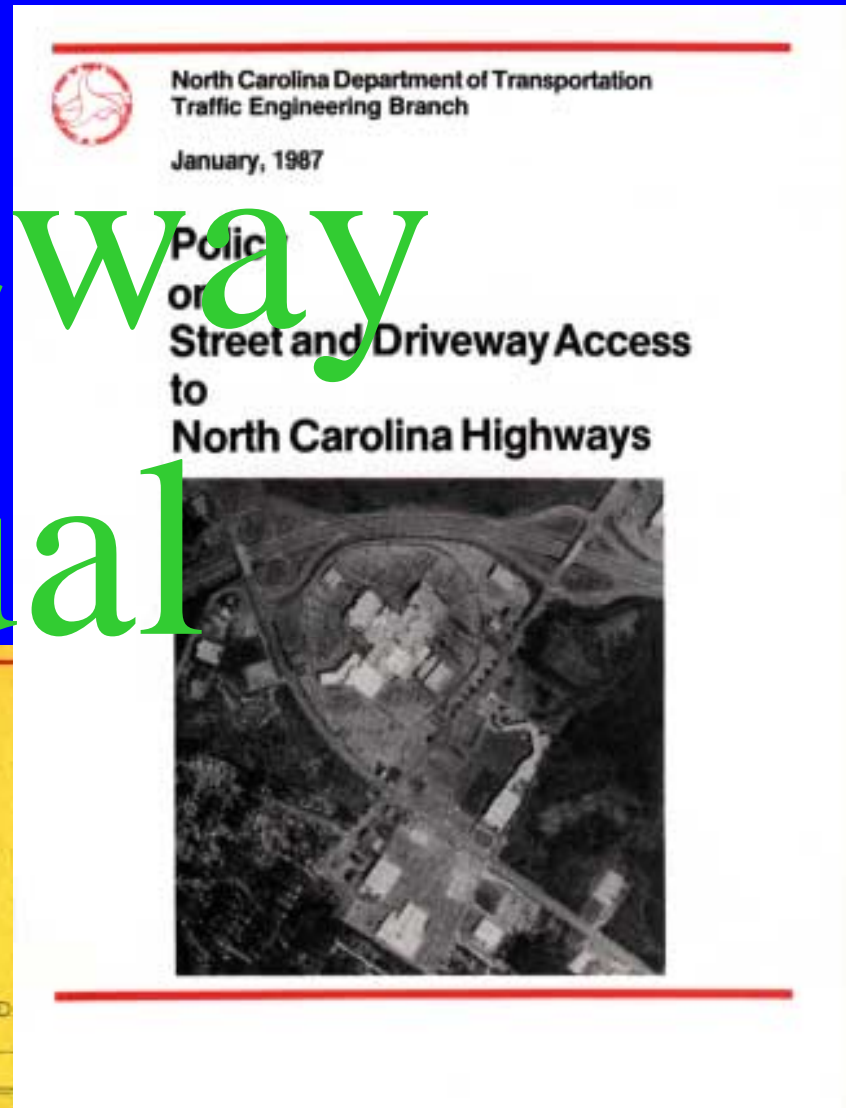
How Do We Deal With The Gray Matter?

- Reference Manuals
- Policies/Procedures, that change with time
- Technical statistics/studies
- Other engineering data and analyses

How Do We Deal With The Rest of The Gray?

- Engineering Judgement
- Experience
- Education (Ourselves and Others)
- Lessons Learned

Driveway Manual



Driveway Manual Update

What's in it?

- **More Guidance:** Examples, Process Flow Chart, TIS Threshold, Appeal Process, TIP Involvement Process
- **List of References:** Other Important Design Guides (Roadway Design Manual, AASHTO Manual, MUTCD, Median Crossover Guidelines, Highway Capacity Manual, Hydraulic Design Manual, ITE Trip Generation Manual, etc..)
- **Frequently Asked Questions (FAQ):** Short List of Driveway Questions Most Frequently Asked
- **List of Legal References:** Applicable General Statutes, Administrative Codes etc...

Driveway Manual Update

What's the Status?

- Spent last three years in committee meetings working out details of a draft manual
- Most of those three years were spent trying to reduce the amount of gray matter that would be in it
- Past year spent trying to convince upper management and a DOT Board subcommittee to approve a draft
- Final draft going to NCDOT Board of Transportation in June
- Expecting approval for implementation in “Temporary Rules” form by July or August

Driveway Manual Update

What's Next?

Training, training, and more training !!

- **Trip Generation Module:** What is it, How to perform one, What to look for, Smoke and Mirrors
- **Traffic Impact Study (TIS) Module:** What is it, How to do one, How to review one, Smoke and Mirrors
- **Capacity Module:** Unsignalized, Signalized, Signal Systems, Smoke and Mirrors
- **Driveway Manual Module:** What's in it, How to interpret it, How to Apply it

Driveway Manual Update

When Will Training Start?

- Some will start as early as June or July
(Trip Generation, Traffic Impact Studies,
Capacity)
- Driveway manual training will start after
Board approval

Driveway Manual Update

Who Will be Involved?

- Division and District Staff
- Regional Traffic Engineering Staff
- Raleigh Staff (Traffic, Roadway, Planning, Others)
- Local Government Staff

Are We Ready?



In 2003 the US Navy initiates it's new
"Terrorist Catch and Release Program"

Do You Have Any Questions?



